HIGH VACUUM RECTIFIER

A292

ENGLISH ELECTRIC

Service Type CV5998

ABRIDGED DATA

External-anode Rectifier for charging diode or overswing diode service in high power pulse modulators.

Peak Inverse Anode Voltage	40	kV Max
Peak Anode Current	75	A Max
Mean Anode Current	1·5	A Max

GENERAL

Electrical

Cathode	Indirectly Heated	
Heater Voltage	12	V
Heater Current	14±1	A

Mechanical

Overall Length	16·250 inches	(412·8 mm)	Max
Overall Diameter	2·133 inches	(54·18 mm)	Max
Net Weight	5¼ pounds	(2·4 kg)	Approx
Mounting Position			Any
Cooling (*See Note* 4)			Water or forced-air

MAXIMUM AND MINIMUM RATINGS

(Absolute Values)

	Min	*Max*	
Heater Voltage	11·4	12·6	V
Heater Starting Current (Peak)	—	40	A
Cathode Heating Time	6·0	—	minutes
Peak Inverse Anode Voltage (*See Note* 1)	—	40	kV
Anode Current:			
Peak (*See Note* 2)	—	75	A
Mean (*See Note* 3)	—	1·5	A
Anode Dissipation (*See Note* 4)	—	2·0	kW
Anode Temperature (*See Note* 5)	—	150	°C
Cathode Terminal Temperature (*See Note* 5)	—	150	°C

NOTES

1. The cathode terminal must be fitted with a corona shield as described on page 3.
2. For overswing diode service.
3. For charging diode service.
4. The anode must be fitted in a cooling cylinder as described on page 3.
5. Measured at the point specified on page 3.

ENGLISH ELECTRIC VALVE CO. LTD.

CHELMSFORD
ENGLAND

Telephone:
Chelmsford 3491

Printed in England

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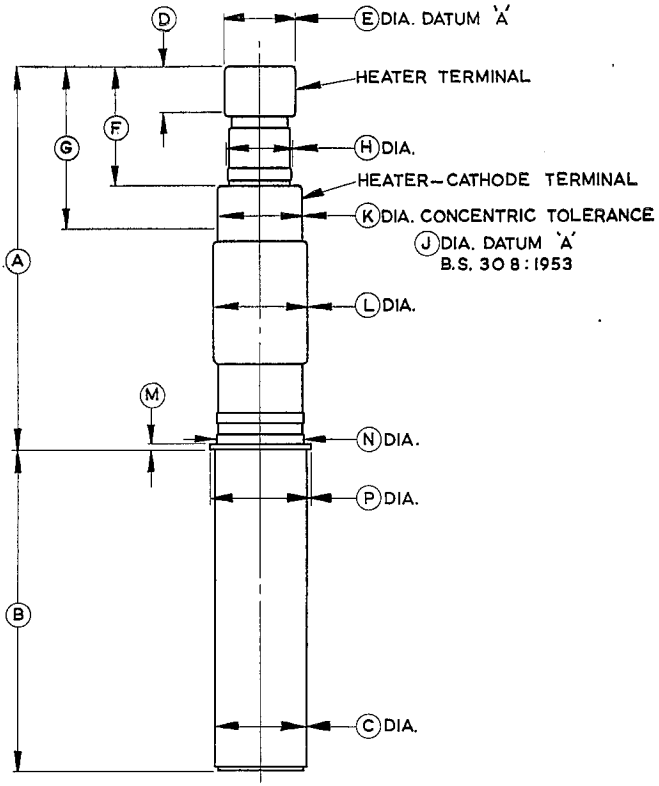
OUTLINE

1271



Ref.	Inches	Millimetres	Ref.	Inches	Millimetres
A	9·500 Max	241·3 Max	H	1·550 Max	39·37 Max
B	6·750 Max	171·5 Max	J	0·050	1·27
C	1·946 Max	49·43 Max	K	1·750	44·45
D	0·375 Min	9·53 Min	L	1·937 Max	49·20 Max
E	1·500	38·10	M	0·125 ± 0·005	3·18 ± 0·13
F	3·063 Max	77·80 Max	N	1·820 Max	46·23 Max
G	3·563 Min	90·50 Min	P	2·125 ± 0·008	53·98 ± 0·20

Millimetre dimensions have been derived from inches.

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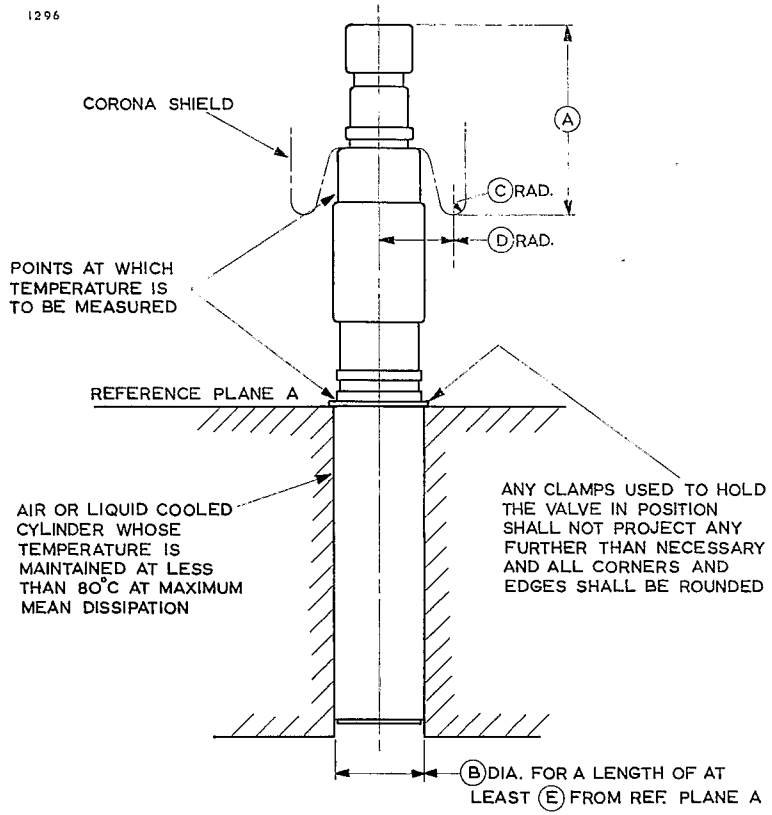
COOLING CYLINDER AND CORONA SHIELD



Ref.	Inches	Millimetres
A	4·000	101·6
B	1·950 Max 1·948 Min	49·53 Max 49·48 Min
C	0·250 Min	6·35 Min
D	1·250 Min	31·75 Min
E	6·750	171·5

Millimetre dimensions have been derived from inches.